

PATENT ABSTRACTS OF JAPAN

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(21) Application number : 03-154410 (71) Applicant : SHIN KOBE ELECTRIC MACH CO LTD
(22) Date of filing : 26. 06. 1991 (72) Inventor : KUNIMOTO TAKESHI
TORITSUKA TAKAHISA

(54) MANUFACTURE OF SPONGY METAL POROUS BODY FOR ELECTRODE PLATE

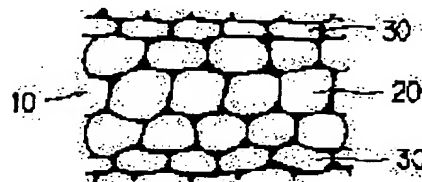
(57) Abstract:

PURPOSE: To manufacture a spongy metal porous body for electrode plate difficult to fall an active material by pressing the body in the thickness direction so as to keep three-dimensional network and internally generate a spring-back.

CONSTITUTION: Anodes are disposed on both thickness directional surface parts of a porous material, the porous material is plated to produce a spongy metal porous material.

Receiving surface members are disposed on both the thickness directional surfaces of the porous material, the porous material is then pressed in the thickness direction so that the three-dimensional network is kept and a spring-back is internally generated to provide a spongy metal porous body 10 for electrode plate

10. The average pore diameter of a porous part 20 in the center part of the porous body 10 is nearly the same as the average pore diameter of the porous material, and the average pore diameter of a surface porous part 30 can be smaller than the average pore diameter in the center part. Thus, an electrode plate difficult to fall an active material and having a high active material charging ratio can be provided with a simple method of pressing.



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(54) MANUFACTURE OF SPONGY METAL POROUS BODY FOR ELECTRODE PLATE

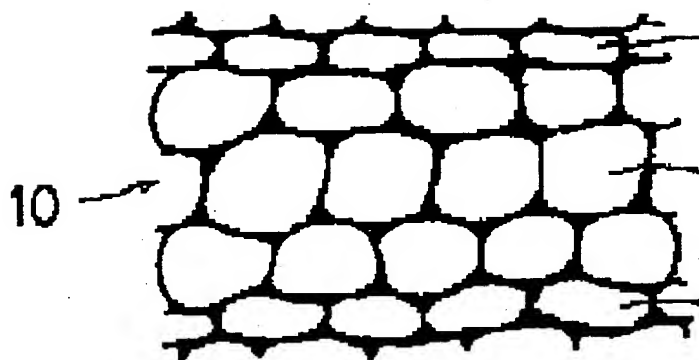
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PURPOSE: To manufacture a spongy metal porous body for electrode plate difficult to fall an active material by pressing the body in the thickness direction so as to keep three-dimensional network and internally generate a spring-back.

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porous material, and the average pore diameter of a surface porous part 30 can be smaller than the average pore diameter in the center part. Thus, an electrode plate difficult to fall an active material and having a high active material charging ratio can be provided with a simple method of pressing.

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(54) 【発明の名称】 極板用スポンジ状金属多孔体の製造方法

(57) 【要約】

【目的】 表面部の平均孔径が内部の平均孔径より十分に小さく、しかも上下方向を逆にしても活物質が脱落しにくい極板用スポンジ状金属多孔体を、簡単な加工作業により製造する。

【構成】 連続した三次元網目構造を有するスポンジ状金属多孔体素材の厚み方向の両面上に受面部材を配置した後、受面部材と一緒にスポンジ状金属多孔体素材を一對のローラプレスを用いてプレスして、スポンジ状金属多孔体10を得る。

